

EPA Region 5

Tire Cleanup Forum

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- **22 years of experience**
- **44 cleanup sites in 4 Western States**
- **9 million tires removed**

- Oregon - 11 sites and over 1.1 million tires removed
- Washington - 18 sites and over 6.9 million tires removed
- Idaho - 5 sites and over 270,000 tires removed
- California - 10 sites and over 776,000 tires removed
- 26 sites were publicly funded for 7,757,408 tires removed. Pile size range = 2,500 to 5,000,000 PTE's
- 18 sites were privately funded for 1,242,592 tires removed. Pile size range = 4,000 to 500,000 PTE's

States' Enforcement / Cleanup Programs

- Oregon - Tire Tax funded development of regulatory infrastructure and cleanup funds.
- Washington - Tire Tax funded development of regulatory infrastructure and cleanup funds.
- Idaho - Tire Tax funded development of regulatory infrastructure and cleanup funds.
- California - Tire Tax funded development of regulatory infrastructure and cleanup funds.

States' Initial Approach To Cost Recovery

- Oregon - None (resulted in increased stockpiles)
- Washington - None (resulted in increased stockpiles)
- Idaho - None (Local enforcement limited quantity of new stockpiles)
- California - Aggressively where possible, limited new stockpiles..

States' Current Status

- Oregon - Tire Tax sunset in early 90's. Enforcement infrastructure has prevented tire stockpiles. Implementation is relegated to State DEQ.
- Washington - Tire Tax sunset in mid 90's. Enforcement infrastructure inadequate to prevent some new stockpiles. Implementation is relegated to County/local control.
- Idaho - Tire Tax sunset in mid 90's. Enforcement infrastructure inadequate to prevent some new stockpiles. Implementation is relegated to County/local control.
- California - Tire Tax currently active. Enforcement infrastructure has prevented tire stockpiles. Implementation is relegated to State control board.

Public Bids (RFPs) Evaluated

- Technical
- Management Specifications
- Cost Specifications
- Certifications & Assurances

Public RFPs Evaluated (*continued*)

- Technical Proposals
 - ▶ Cleanup Plan
 - Plan of Attack
 - Scheduling
 - ▶ Disposition Plan
 - Recycling Markets
 - Landfill
 - Compliance w/ State & local regulations
 - Reporting (monthly)

Public RFPs Evaluated (*continued*)

- Technical Proposal (continued)
 - ▶ Site Security Plan
 - ▶ Equipment
 - ▶ Accounting
 - ▶ Health & Safety Plan

Public RFPs Evaluated (continued)

- Management Specifications (Organizational Chart and Resumes)
 - ▶ Management Requirements
 - Contractor Info
 - ◆ Subcontractor Info
 - License(s) & Permit(s)
 - ▶ Experience
 - Company History
 - Plant/Process Qualifications
 - Similar Projects

Public RFPs Evaluated (continued)

- Cost Specifications

- ▶ Contractor's Estimate of Total Tire Tonnage

- ▶ Direct Labor Cost

- Tire Processing Off Site

- Tire Cleanup On Site

- ▶ Equipment Rates

- ▶ Trucking Rates

- ▶ Disposal Rates

- ▶ Health & Safety

- ▶ Supplies & Materials

- ▶ Site Preparation

- ▶ G & A

- ▶ Other Costs

- ▶ Profit

- ▶ Total Bid Price Per Ton or Total Project Cost

Public RFPs Evaluated (continued)

- Certification and Assurances to check:
 - ▶ Price determined independently
 - ▶ Firm offer (60 days)
 - ▶ No gov't employees in preparation
 - ▶ No cost reimbursement in preparation
 - ▶ Agreement to terms and conditions

Bid Basis

- Per Ton
 - ▶ Minimizes Risk to Contractor
 - ▶ Reduces Cost
- Total Project
 - ▶ All Risk Placed on Contractor
 - ▶ Increases Bid Cost

Four Case Studies

- Stellar -- Salem, Oregon 776,550 PTE's
- Cross O - Riggins, Idaho 153,000 PTE's
- Erickson - Rochester, WA 289,143 PTE's
- Sears Point - Sonoma, CA 500,000 PTE's

Case Study Stellar - Salem, Oregon

- Located in "Industrial Park" -Scrap Tire Process Site
- Received little public scrutiny
- Not a "legacy site"
 - ▶ DEQ permitted and naive enforcement
- Company goes broke, abandons site, leaves tire shreds and whole tires
 - ▶ Insufficient Financial Assurance translates to public liability
- DEQ negotiates with property owner for access agreement.
 - ▶ No cost recovery except for small financial assurance

Stellar (continued)

- DEQ goes out for bid
- Fixed basis and realizes (?)
 - ▶ 90% will go to landfill (meets specification)
 - ▶ 10% processed for TDF
 - ▶ Recognizes wet weather schedule

Stellar (continued)

- Cleanup Begins - Equipment
 - ▶ Front end loader, excavator
 - ▶ Manual loading out of warehouse
- Significant Issues
 - ▶ Hidden tires in shreds
 - ▶ Weather problems
 - ▶ Security (Who is responsible?)
 - ▶ Residual - Define Clean
 - ▶ Site located within 60 miles of process and/or landfill





Case Study "Cross O" - Riggins, Idaho

- Site in very remote location
- Received some public attention due to:
 - ▶ Adjacent to state highway
 - ▶ Near Salmon River (Scenic River Rafting)
 - ▶ Responsible party created network of legacy sites
- Legacy site
 - ▶ Created just prior to State Tire Tax Program
 - ▶ North Central Health District moves to:
 - enforcement
 - negotiates with State for cleanup funds
 - negotiate access and cost recovery (none)

Cross O (continued)

- Health District goes out for RFP in October
- Project awarded as "Winter Project," per tire basis
- Significant Issues
 - ▶ Expensive \$1.44 per tire
 - ▶ All whole tires - passenger, LT, & truck, manual loading
 - ▶ Winter weather - January & February
 - ▶ Distance to processor (TDF) - 480 miles
 - ▶ Truck & trailer access to pile
 - ▶ Labor - per diem
 - ▶ Vectors - no problem
 - ▶ Security - remote

Case Study "Erickson" - Rochester, WA

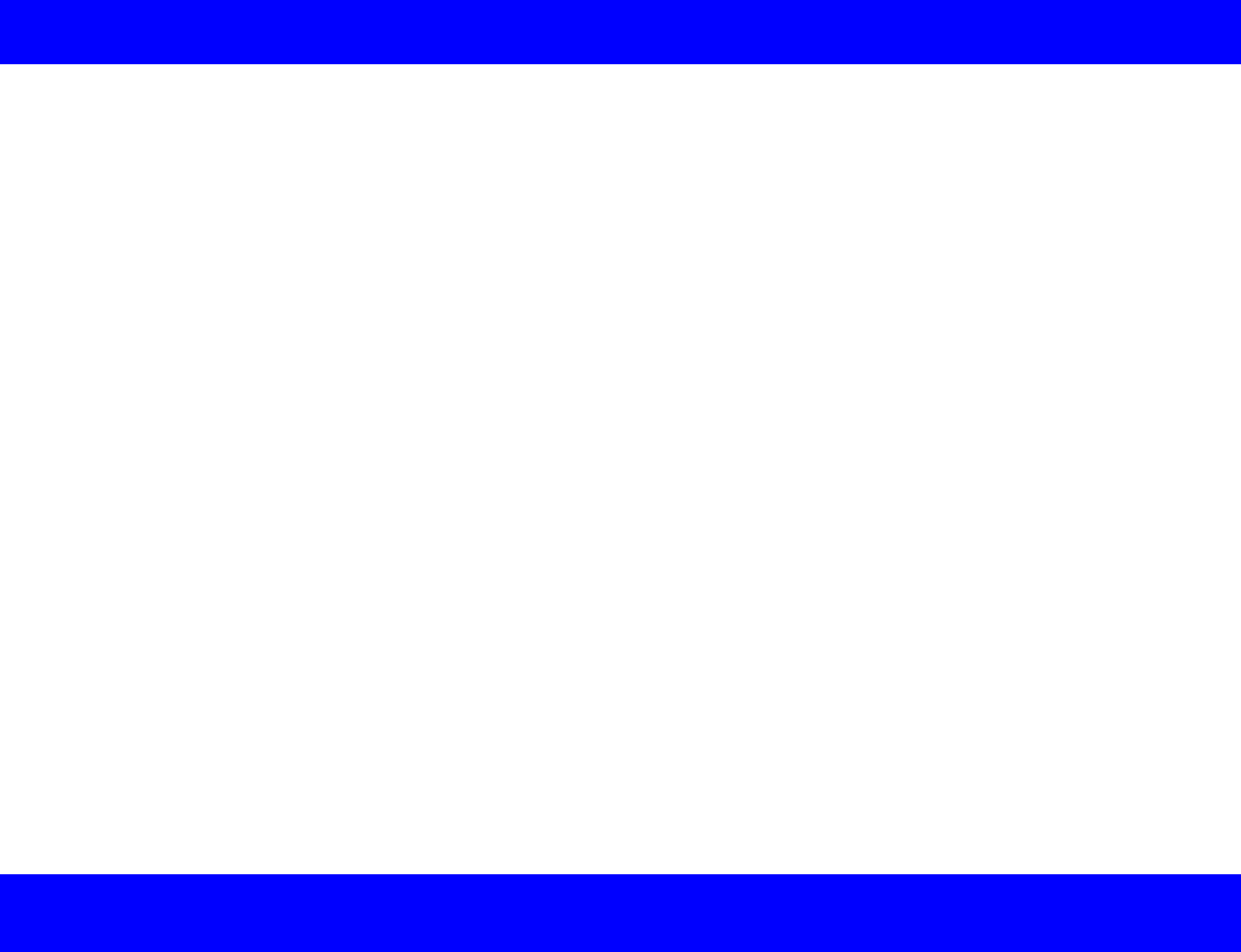
- Located in rural setting
 - ▶ Adjacent to Interstate 5
 - ▶ Approximately 80 miles from processor
- Legacy site status 289,143 PTE's
- Received some public attention due to:
 - ▶ Historical Fire
 - ▶ Proximity to Interstate 5
 - ▶ Neighboring property being developed for rural residential
- State negotiates access and cleanup activity
 - ▶ Thurston County
 - ▶ No cost recovery

Erickson (continued)

- State goes to bid in summer (Request for Proposal)
- State host's site walk around (Q & A period)
- Fixed Bid on total cost
- State exempts contractors from tire fire residual
- Contract awarded on lowest price
- First Contract awarded under Tire Tax Cleanup Fund
 - ▶ Learning curve begins
 - Experience - State & contractors/bidder qualifications
 - Market and disposal due diligence
 - Cost and bidding strategy

Erickson (continued)

- Cleanup begins
 - ▶ Equipment - Truck & trailers
 - ▶ Manual loading of chip vans
- Significant Issues
 - ▶ Winter Cleanup dictates extension - high water
 - ▶ Easy Access
 - ▶ Security
 - ▶ Work around burned areas (not extensive)
 - ▶ Tires converted to TDF for disposal
 - ▶ Regional laborers and local supervision
 - ▶ Neighbors very cooperative
 - ▶ Vectors not a problem



Case Study "Sears Point" - Sonoma, CA

- Site located near major state highways, North end of SF Bay Area
- Rural geography around the site, within 10 miles of populated areas
- Legacy site that was buried 25+ years ago
- Private cleanup
- Discovered during \$40 million expansion of NASCAR raceway
- 500,000 PTE's removed, approximately 30% was actually dirt contamination

Sears Point (continued)

- No public attention
- Recognized as part of required excavation for expansion
- Request for bid
- Evaluated site
 - ▶ Created plan of attack for heavily dirt contaminated site
 - Tires were excavated and staged in open area for contractor
 - ▶ Acquired State variance on landfill of contaminated tires
 - ▶ Negotiate disposal rates with landfill
- Presented plan and quote
- Contract award (all of above occurred within 1 week period)

Sears Point (continued)

- 4 month cleanup
- Equipment - Track hoe and specialty hauling equipment (live floor and demo trailers)
- Significant Issues
 - ▶ Decontamination effort in staging area
 - ▶ landfill within 50 miles
 - ▶ Easy Access
 - ▶ Secure
 - ▶ Site expansion contractor on site and willing to provide some assistance if needed
 - ▶ Regional subcontractors
 - ▶ Motivated responsible party
 - ▶ Other than variance for disposal, no other State or local involvement



Brief Review of Other NW Regional Cleanup Projects

- Everett, WA (Fire initiated original effort to pass scrap tire tax.)
- White Pile at Tacoma, WA (Illustrates problems estimating quantity)
- Winlock, WA (largest publicly funded tire cleanup in NW)
- Woodenville, WA (first lesson in uncovering the unknown)
 - ▶ fixed bid and the contractors risk

Everett, WA



White Pile - Tacoma, WA



Winlock, WA



Woodenville, WA

